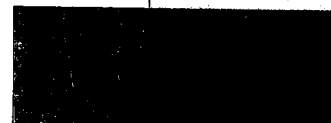




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IMAGERY
ANALYSIS



STAFF

PIR

PHOTOGRAPHIC INTELLIGENCE REPORT

PETROVKA SHIPYARD
PETROVKA, USSR



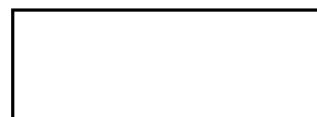
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DDI IMAGERY ANALYSIS STAFF

PETROVKA SHIPYARD
PETROVKA, USSR

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PETROVKA SHIPYARD

PETROVKA, USSR

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PETROVKA SHIPYARD

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FIGURE 1

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DDI IMAGERY ANALYSIS STAFF

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SHIPYARD : PETROVKA SHIPYARD
LOCATION : PETROVKA, USSR
GEO COORDS: 43-07N 132-21E

GEO COORDS: 43-07N 132-21E

KEY TO FACILITY ANNOTATIONS ON FIGURE 2

A. Probable administrative-type building appears complete.

B. Tank housing structure.
Construction continues on the tanks in the northern half of the building. Only the four tank bases/pedestals are in place.

C. Probable processing building.
Construction continues on this building.

C. Probable processing building.
Construction continues on this building.

D. Main building.
Construction continues on this large building. The eastern end of the roof has been extended [REDACTED] however, a large area of the roof remains to be completed.

D. Main building.
Construction continues on this large building. The eastern end of the roof has been extended [redacted] however, a large area of the roof remains to be completed.

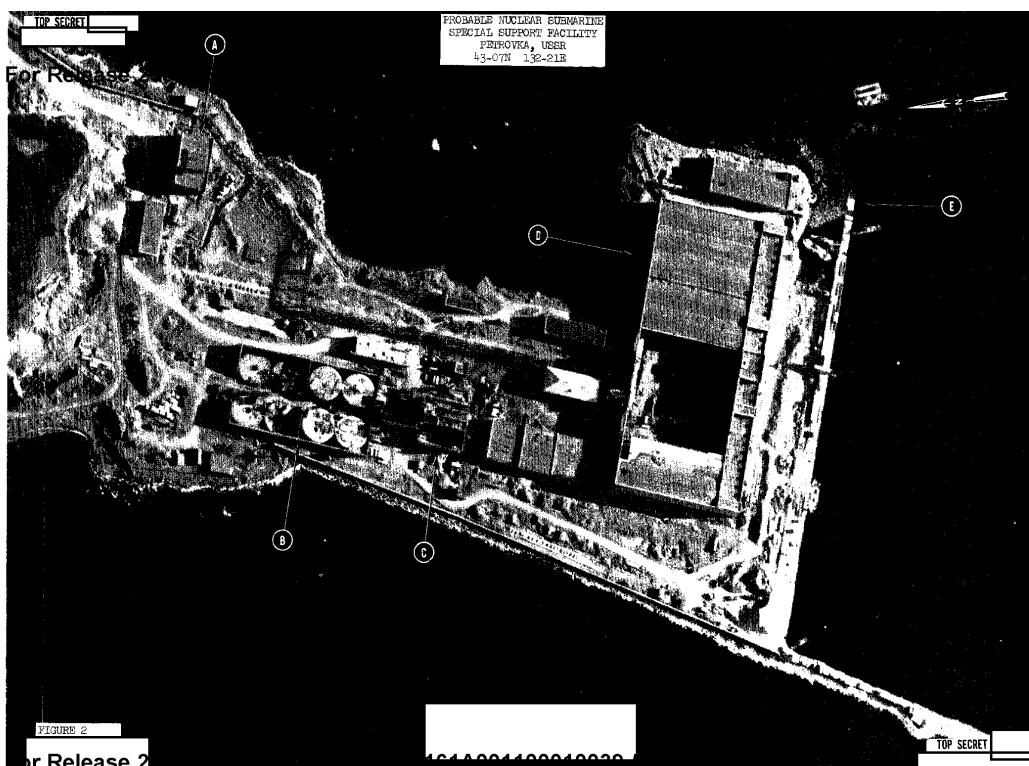
roof has been extended. [redacted] however, a large the roof remains to be completed.

B. Construction continues on new quay area. The quay has been extended almost to the end of the land area.

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SHIPYARD : PETROVKA SHIPYARD
LOCATION : PETROVKA, USSR
GEO COORDS: 43-07N 132-21E

KEY TO NUMBERED ANNOTATIONS ON FIGURE 3

1. AMGUEMA Class Cargo Icebreaker (LOA approx 440').
The open forward hatch and the attitude of the vessel would seem to indicate that this vessel is about to tie up to the quay and off-load cargo.
2. Unidentified vessel between the AMGUEMA at annotation 1 above and 3 below.
This vessel may be used in off-loading the two AMGUEMAs.
3. AMGUEMA Class Cargo Icebreaker Med-moored to quay (LOA approx 440').
4. "E-II" Class SSGN (visible waterline length 380').
5. Unidentified small auxiliary (LOA approx [REDACTED])
6. Large floating crane.
7. Probable gravel barge.

KEY TO FACILITY ANNOTATIONS ON FIGURE 3

- A. Unidentified building.
- B. Security fence.
This fence encloses most of the north quay area.
- C. Unidentified twin monitor roofed building.
- D. Administrative-type building four stories high.
Security fencing now isolates this building from the remainder of the north quay area. This fencing allows access to one side of the other building at annotation C above and extends to the edge of the quay enclosing the "E-II" Class submarine at annotation 4 above. Whenever an "E" Class submarine has been identified on previous missions, it has been berthed within the confines of the quay now enclosed by the security fence. This berthing arrangement suggests that these two buildings may be associated with "E" Class nuclear submarines.

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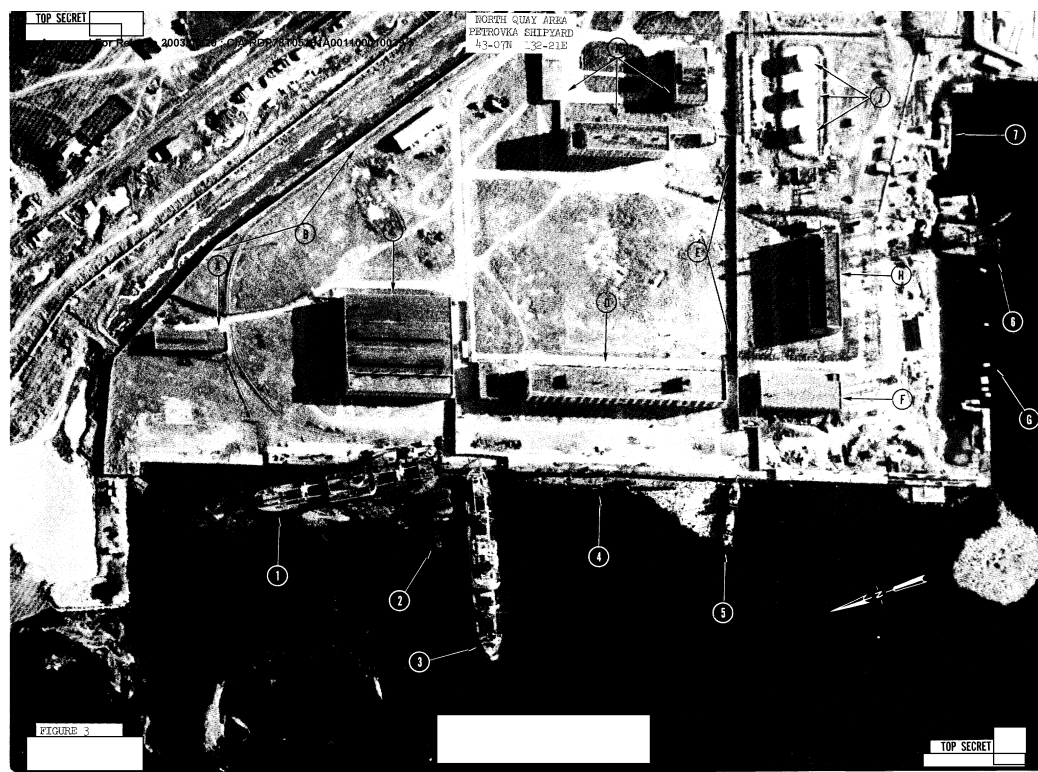
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- E. Security fence.
This fence now completely encloses the southern portion of the north quay area.
- F. Unidentified building.
- G. Construction continues on the new quay.
- H. Unidentified step-roofed building.
Supports for a steam line are visible on three sides of this building.
- J. Three cylindrical tanks.
- K. Three probable administrative-type buildings.
The many windows and landscape pattern indicate that the three buildings serve an administrative function. Security fencing between the buildings and other fencing at annotations B and E above enclose the eastern portion of the north quay.

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SHIPYARD : PETROVKA SHIPYARD
LOCATION : PETROVKA, USSR
GEO COORDS: 43-07N 132-21E

KEY TO NUMBERED ANNOTATIONS ON FIGURE 4

1. Unoccupied transporter dock (LOA approx 480').
2. Space previously occupied by a DECON/RADCON barge.
The imagery probably equating to piping remains in place.
3. Unoccupied transporter dock (LOA approx 480').
4. Probable AEM/ASL (LOA approx)
5. Probable floating workshop (LOA approx 230').
6. ZEYA Class YRSN (LOA approx)
7. Large floating crane.
8. Small auxiliary (LOA approx)
9. Unidentified auxiliary (LOA approx 300').
10. SKORYY Class AGT (LOA approx 395').
11. "E-II" Class SSGN (visible waterline length approx 380').
A raised unidentified object is visible on the centerline just after the aftermost set of blast deflectors.
12. OKHTENSKIY Class ATR (LOA approx 155').
13. Rectangular submarine support barge (LOA approx 195').
The long unbroken superstructure topside of this barge appears similar to the recently constructed barge
14. OKHTENSKIY Class ATR (LOA approx 155').

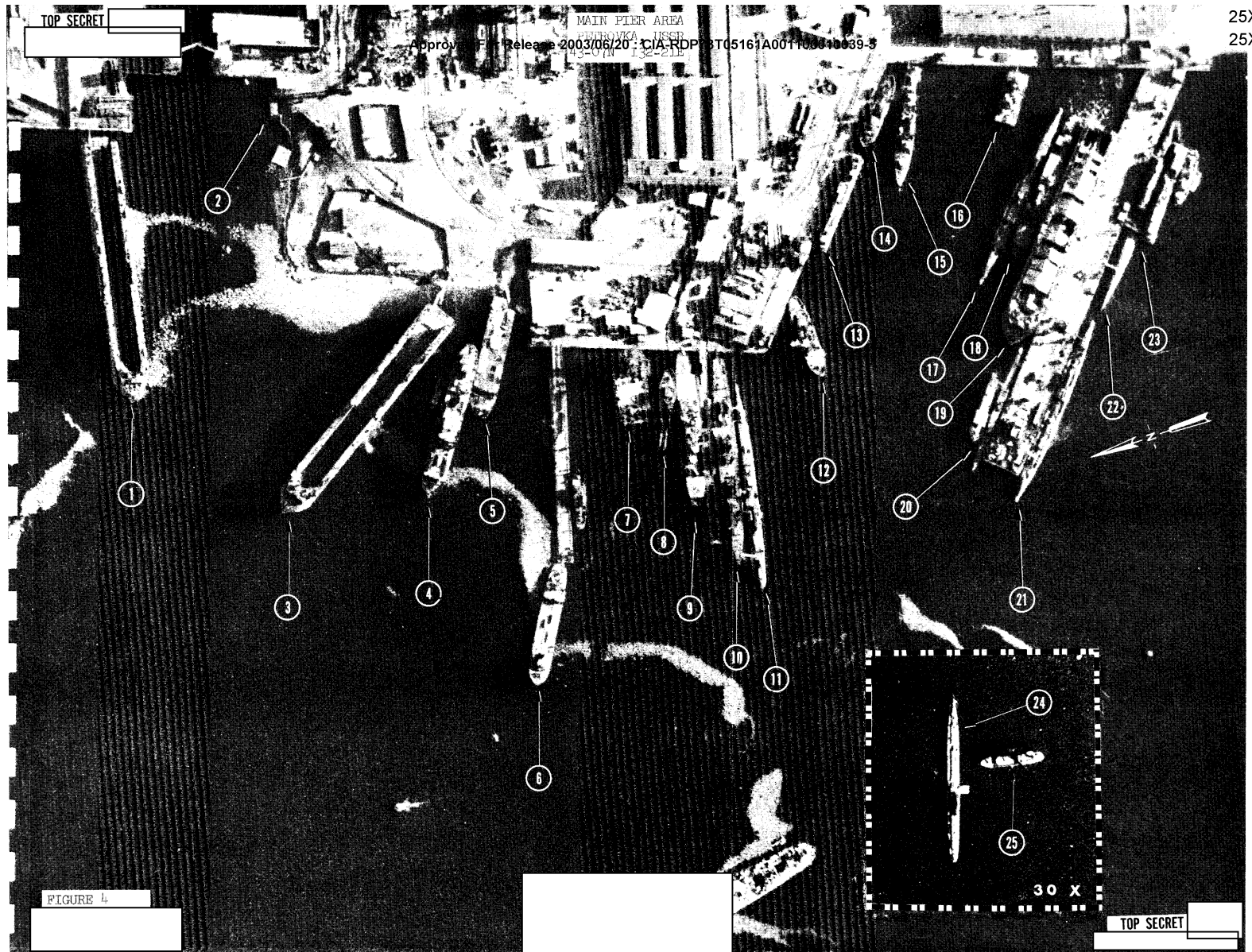
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MAIN PIER AREA

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15. "T-58" Class MSF (LOA approx 220').
16. Floating crane.
17. "E-I" Class SSGN (visible waterline length approx
18. Unidentified auxiliary berthed between the "E-I" Class SSGN above and the occupied transporter dock at annotation 19 below (LOA approx 295').
19. Transporter dock (LOA approx 430').
This transporter dock is occupied by an unidentified submarine.
20. Unidentified submarine (visible waterline length approx 255').
21. "E-I" Class SSGN (visible waterline length approx
Most of the outer deck plating on the submarine has been removed between the leading edge of the forwardmost missile launcher and the aftermost exhaust deflectors. The three missile launchers have been removed. Identification is based on the position of the sail, the approximate distance of 100 feet from the leading edge of the sail to the bow, and the distance of approximately from the stern to the leading edge of the sail. (See Figure 4A for a line drawing of this submarine.)
22. "H-II" Class SSBN (visible waterline length approx 380').
An "H-II" Class SSBN observed at Petrovka
was located on the repair way closest to the wet basin.
23. Probable DECON/RADCON barge (LOA approx 195').
The break in the superstructure is similar to that seen on the probable DECON/RADCON barge previously connected by piping to the "H-II" on the repair way.
24. "E-II" Class SSGN in middle of bay (visible waterline length approx 385').
Small auxiliary is positioned off the port beam.
25. Unidentified vessel (LOA roughly 155').

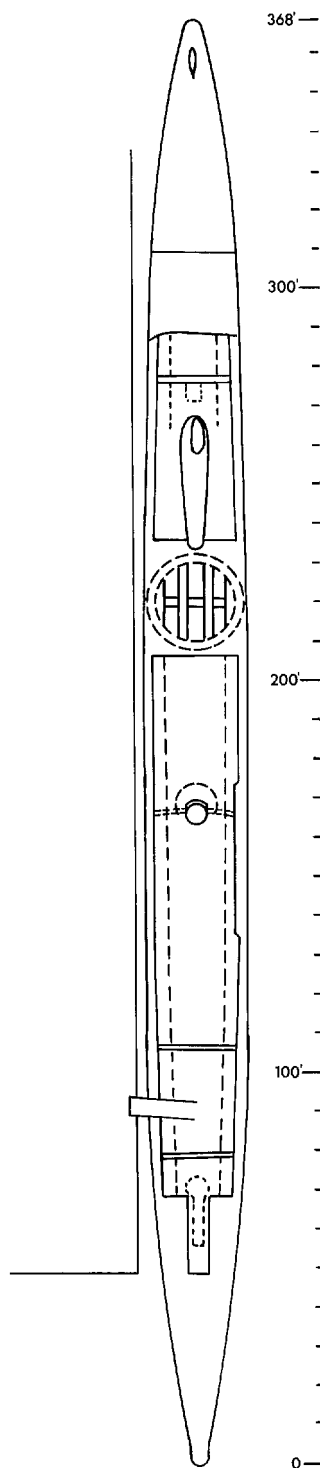
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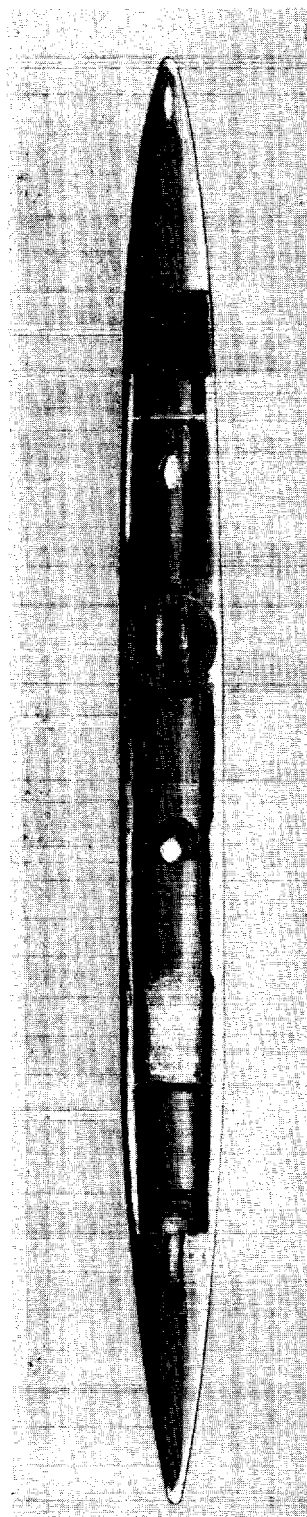
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Dashed lines denote tenuous imagery



Artist's Conception

FIGURE 4A "E-1" CLASS SSGN WITH EXPOSED PRESSURE HULL

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DDI IMAGERY ANALYSIS STAFF

SHIPYARD : PETROVKA SHIPYARD
LOCATION : PETROVKA, USSR
GEO COORDS: 43-07N 132-21E

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KEY TO FACILITY ANNOTATIONS ON FIGURE 5

A. New construction site.

The site is enclosed by a fence on all four sides except for a large opening at the western end and one road access in the northern side. Temporary construction roads, large cranes, and other equipment and materials are dispersed throughout the site. The foundation for a probable long rectangular-shaped building is under construction. Two large cement pads have been poured at either end of the long axis of the building. Parallel lines, resembling tracks under construction, are positioned at right angles to the western edge of the eastern pad. The parallel lines extend for a distance of roughly 215 feet west of this pad. Other parallel lines are observed leading into the second pad along the same axis and similar alignment. Along the southern side of the foundation heavy footings are being constructed. The footings appear similar to footings seen at Yagry Island, Severodvinsk Naval Base and Shipyard 402, Severodvinsk, USSR (64-35N 039-50E)

25X1

25X1

B. Probable missile launchers on quay.

The four objects lying on the quay are two probable twin launchers and two probable single launchers. These probable launchers could equate to the launchers removed from the stripped-down "E-I" Class SSGN at annotation 21, Figure 4 above. The probable tubes measure approximately [] for the two larger ones and [] for the two smaller ones which approximates the length of the missile tubes carried by the "E-I". The "notch" which is found at the forward launcher end between the two missile tubes on the "E-I" Class SSGN can also be identified on the probable twin launchers.

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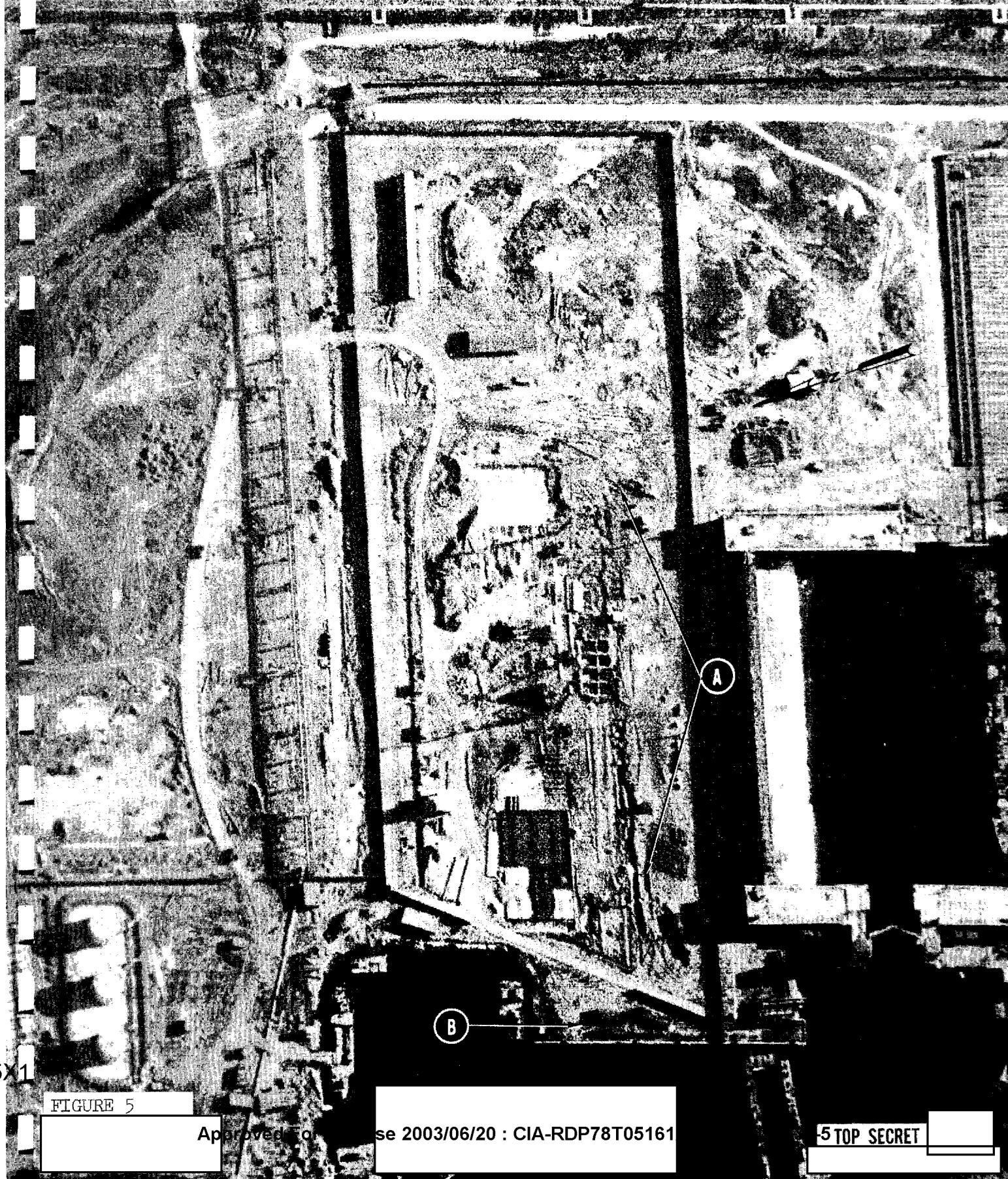
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NEW CONSTRUCTION SITE

PETROVKA USSR

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43-07N 132-21E



25X1

FIGURE 5

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SHIPYARD : PETROVKA SHIPYARD
LOCATION : PETROVKA, USSR
GEO COORDS: 43-07N 132-21E

KEY TO FACILITY ANNOTATIONS ON FIGURE 6

- A. Borrow pit.
Earth removal and track activity has occurred

25X1

- B. New construction site.
Construction continues on the parallel footings and several piles of
construction materials have been placed at this site

25X1

- C. Steam line.

25X1

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BORROW PIT AREA
PETROVKA, USSR
43-07N 132-21E

25X1

(A)

(B)

(C)

FIGURE 6

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SHIPYARD : PETROVKA SHIPYARD
 LOCATION : PETROVKA, USSR
 GEO COORDS: 43-07N 132-21E

25X1

KEY TO NUMBERED ANNOTATIONS ON FIGURE 7

1. SKORYY Class DD (LOA approx 395').
2. Space previously occupied by an "H-II" Class submarine.
 The imagery resembling piping is still in place leading from the repair way down to the water's edge. A probable DECON/RADCON barge was previously positioned at the terminus of this piping.

25X1

25X1

3. OSA Class PTFG (LOA approx 350').
4. Large Missile Target Barge (LOA approx 350').

25X1

5. Large Missile Target Barge (LOA approx 350').
 A large L-shaped opening is visible near the side of the barge.

25X1

25X1

6. OKHTENSKIY Class ATR (LOA approx 155').
7. Two unidentified barges (LOA of each roughly 130').
 A bulky block superstructure covers nearly the entire topside area of each of these craft.

8. OSA Class PTFG (LOA approx 350').

9. OSA Class PTFG (LOA approx 350').

25X1

10. RIGA Class DE (LOA approx 300').
 This is the first time a RIGA Class DE has been identified in this shipyard.

11. Unidentified auxiliary (LOA approx 130').

25X1

12. PETYA Class PCE (LOA approx 270').

13. Rectangular-shaped barge (LOA approx 130').
 A bulky block superstructure covers nearly the entire topside area of this craft.

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BUILDING/REPAIR WAYS

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43-07N 132-21E

- 1
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FIGURE 7

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SHIPYARD : PETROVKA SHIPYARD
LOCATION : PETROVKA, USSR
GEO COORDS: 43-07N 132-21E

KEY TO FACILITY ANNOTATIONS ON FIGURE 8

- A. Unidentified structure.
Four circular objects project above the top of this structure.
- B. Three unidentified buildings.
- C. Monitor roof building.
Probable light fabrication or storage is indicated by the three large monitors on the roof of this building.
- D. Large monitor roofed building.
This building contains three large monitors and is probable used for light fabrication or storage.
- E. Monitor roof building.
Two large monitors indicate that this building may be used for light fabrication or storage.
- F. Unidentified stepped-roof building.
Small projections on the roof of this building probably equate to ventilators.
- G. Unidentified small building complex.
- H. Large monitor roof building.
Eight rooftop monitors indicate that this building is probably engaged in light fabrication or storage.

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MAIN SHIPYARD SUPPORT AREA

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PETROVKA, USSR
43-07N 132-21E

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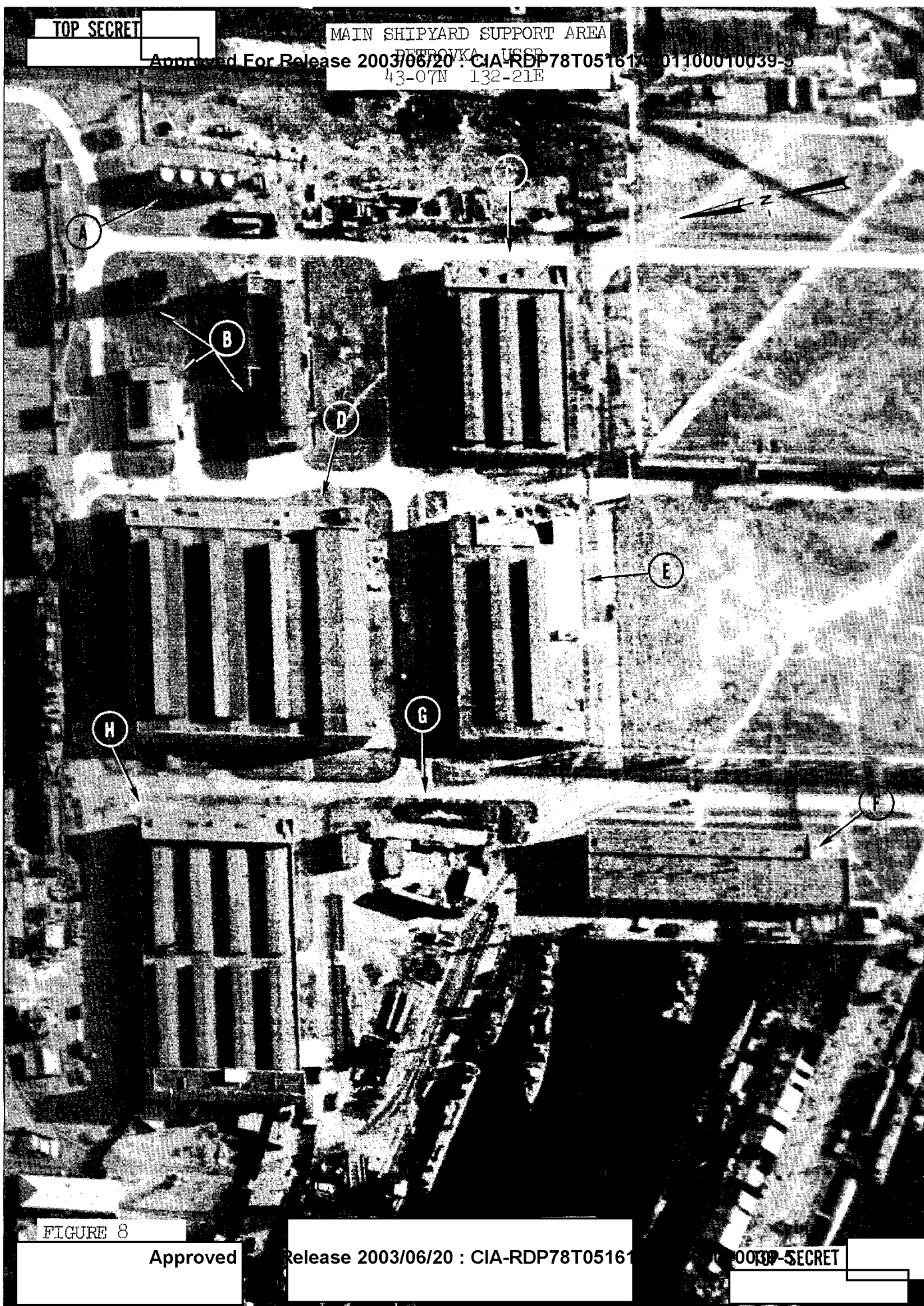


FIGURE 8

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SHIPYARD : PETROVKA SHIPYARD
LOCATION : PETROVKA, USSR
GRID COORDS: 43-07N 132-21E

25X1

KEY TO:

ILLEGIB

- A. Electrical control building.
- B. Two transformers.
- C. Electrical switching equipment.
- D. [REDACTED]
- E. Steam plant.
- F. Steam line.

ILLEGIB

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STEAM PLANT AND SUBSTATION

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2003/06/20 : CIA-RDP78T05161A001100010039-5

43-07N

132-21E

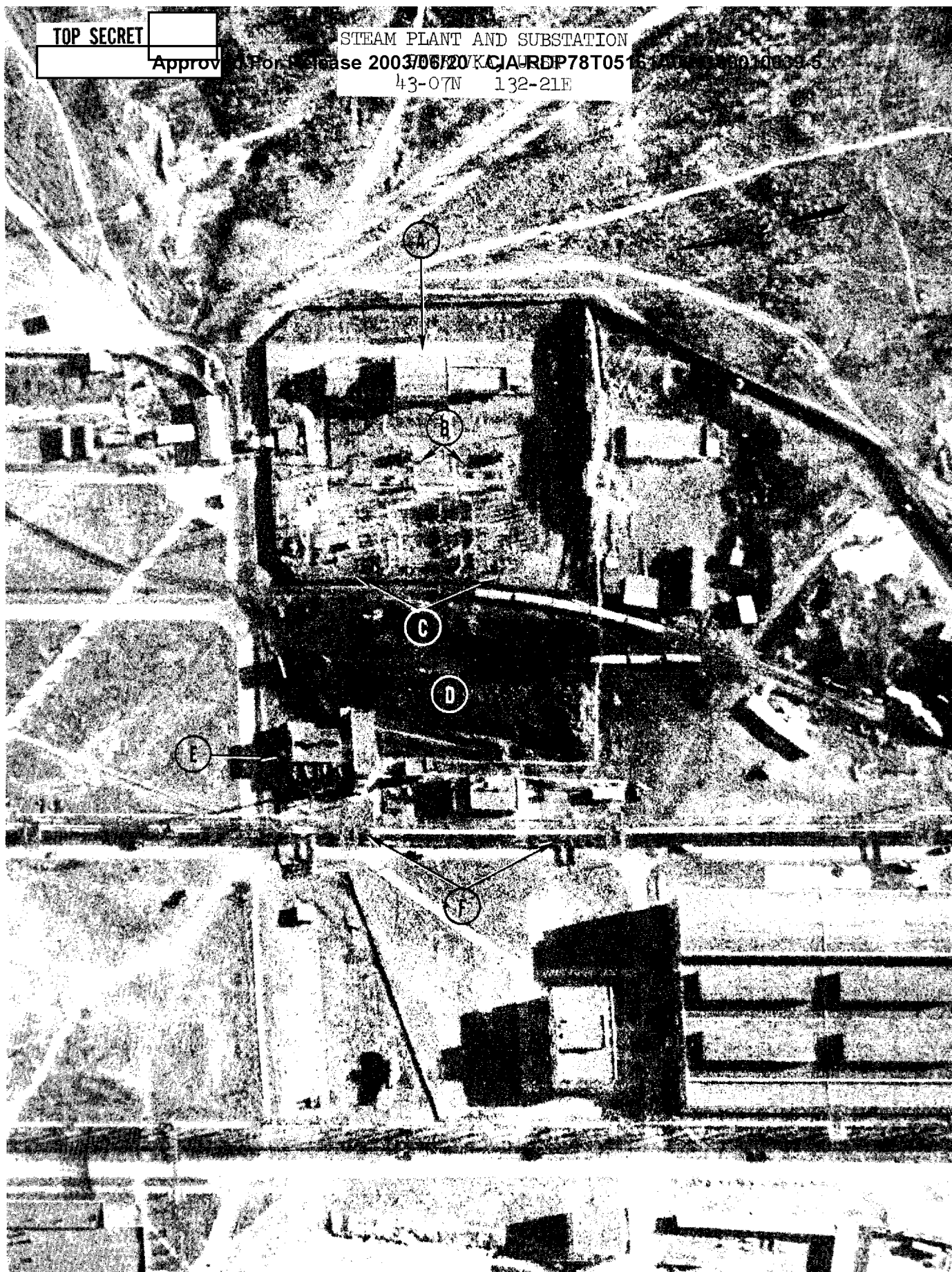


FIGURE 9

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SHIPYARD : PETROVKA SHIPYARD
LOCATION : PETROVKA, USSR
GEO COORDS: 43-07N 132-21E

KEY TO FACILITY ANNOTATIONS ON FIGURE 10

- A. Large monitor roof building.
This building has a step-type roof with six large monitors on the larger step. Light fabrication or storage is probably the main function of the building.
- B. Unidentified facility.
- C. Elevated steam line.
- D. Open storage yard.
This area contains materials that are apparently brought in on the rail line at annotation E below.
- E. Rail line.
- F. Line of possible footings for new construction.
- G. Unidentified building under construction.
A security fence containing an entrance in the southern end completely surrounds this building. One long monitor rises above the center portion of the roof along the longitudinal axis of the building. The exterior of the building is apparently in the final stages of construction.
- H. New construction site.
New construction activity is present in this area. Materials/equipment are randomly located throughout the site.

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POSSIBLE SHIPYARD SUPPORT AREA
PETROVKA, USSR
43-07N 132-21E

06/20 : C

A

C

E

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B

FIGURE 10

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SHIPYARD : PETROVKA SHIPYARD
LOCATION : PETROVKA, USSR
GEO COORDS: 43-07N 132-21E

KEY TO NUMBERED ANNOTATIONS ON FIGURE 12

1. The floating crane has been repositioned
 2. The large floating crane has been repositioned
 3. The ZEYA Class YRSN has been moved from the end of the pier
 4. An unoccupied transporter dock (inset) is lying-to just outside the mouth of the bay.
This dock was not present at Petrovka
this dock is roughly 365 feet.
- The LOA of

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PETROVKA SHIPYARD
PETROVKA, USSR
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FIGURE 12

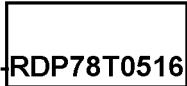
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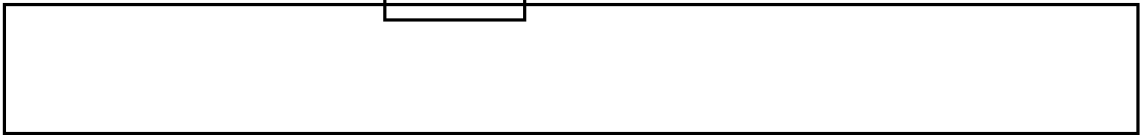
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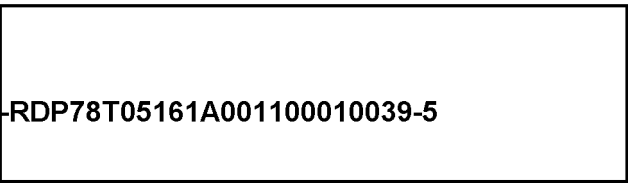


REQUIREMENT NO.

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CIA/IAS PROJECT NO.

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